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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,835		03/08/2004	Vibha Goel	AVAN-01000D1	2489
26290	7590	01/10/2006		EXAMINER	
		HERIDAN, L.L.P.	PAYNE, DAVID C		
3040 POST OAK BOULEVARD SUITE 1500			ART UNIT	PAPER NUMBER	
HOUSTON	, TX 77	056		2638	
				DATE MAILED: 01/10/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/796,835	GOEL, VIBHA
	Office Action Summary	Examiner	Art Unit
		David C. Payne	2638
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>28 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.	
Dispositi	on of Claims		
5) 6) 7) 8)	Claim(s) <u>1-5</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers		
	·		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the other contents are declaration is objected to by the Examination is objected to be applied to the Examination is objected to the Examina	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
12) <u></u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment	e(s) e of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_413)
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail Da	

Application/Control Number: 10/796,835 Page 2

Art Unit: 2638

DETAILED ACTION

Response to Arguments

1. Regarding the applicant's traverse of Mody US 20020181509 A1. Mody states ¶ 103,

The communication system 6 may either employ L such synchronization circuits 61, one for each OFDM demodulator 22 or it may employ certain parts of the synchronization circuit for all the OFDM demodulators 20 and certain parts that are common to the entire receiver 10. For example, the OFDM modulators 22 may include individual time synchronization circuits 66 and 72 and frequency offset correction circuit 74, but may share common frequency offset estimation circuits 68 and 70. Alternatively, the receiver 10 may simply comprise a single synchronization circuit 61.

- 2. After review of the passage in Thatcher col./line: 8/61-9/7, the examiner disagrees with the applicant reading of the passage. While Thatcher's invention is hot pluggable, it makes no indication that certain elements could not be shared. It in no way defeats the purpose of having separate hot pluggable devices to have a common receiver. Furthermore, Mody teaches shared components as a design alternative.
- 3. The examiner finds that the reading of Harrigan, as teaching away from a common receiver part based on the passage of aligning fiber-optic coupler as speculation and does not defeat the proposed combination.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Application/Control Number: 10/796,835 Page 3

Art Unit: 2638

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Thatcher et al. US* 5,757,998 (*Thatcher*) in view of Mody et al. US 20020181509 A1 (Mody).

Re claims 1, 4 Thatcher disclosed:

A system comprising a housing (package, e.g., col./line: 3/5-15);

a receiver part (optical receiver sub-assembly, e.g., col./line: 3/55-60), associated with said housing, including at least a receiver array;

a plurality of interface assemblies (*Figure 1B*), each interface assembly sized for receiving a transmitter part which have outer surfaces sized for allowing said transmitter part to slide into place within said housing (*Figure 1B*), and which can be selectively inserted and removed from said receiver part (e.g., col./line: 5/10-15), said housing including common circuitry operating to drive said interface assemblies (e.g., col./line: 3/55-60), and said housing including slide portions which guide said surfaces of each interface assembly into a location and allow connection to said interface assembly, and which allow said interface assemblies to be selectively slid into place and connected and subsequently remove.

Thatcher does not disclose that interface assembly including has its own heat sink portions, associated with transmitter circuitry on the interface assembly, which operate to dissipate heat from the interface assembly.

However, Thatcher, disclosed a package with integrated heat sink (e.g., col./line: 7/1-5).

It would have been obvious to one of ordinary skill in the art at the time of invention to separate the Thatcher heat sinks onto each interface assembly to obtain the claimed invention. One is motivated as such since greater heat dissipation is achieved by placing each heat sink directly with each interface assembly rather than on the outer housing. Lacking any criticality, to make prior art parts separable does not make the claimed invention patentable over that prior art (Nerwin v. Erlichman, 168 USPQ 177).

Thatcher does not disclose a common receiver part.

Art Unit: 2638

Mody disclosed a communication system having receivers having a common part, see paragraph 103. It would have been obvious to one of ordinary skill in the art at the time of invention to utilize common parts in a receiver for efficiency and cost effectiveness.

Claims 2, 3, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Thatcher et al. US* 5,757,998 (*Thatcher*) and Mody et al. US 20020181509 A1 (Mody) as applied to claim 1 above, and in further view of *Darcie*, *US* 6,014,479 (*Darcie*).

Re claims 2 and 5, the modified invention of Thatcher and Mody did not disclose WDM transmitters.

Darcie disclosed WDM transmitters (e.g., col./line: 3/14-20).

It would have been obvious to one of ordinary skill in the art at the time of invention to use WDM transmitters in the Thatcher module to obtain the claimed invention. One is motivated as such since WDM networks offer high capacities and facilitate a wide variety of architectures (e.g., col./line: 1/14-20).

Re claim 3, Darcie disclosed transmitters operating at different wavelengths (e.g., col./line: 3/27-33).

7. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Harrigan et al. US* 6,069,752 (*Harrigan*) in view of Mody et al. US 20020181509 A1 (Mody).

Re claims 1 and 4 Harrigan disclosed:

A system comprising a housing (e.g., col./line: 6/15-37);

a receiver part (e.g., col./line: 6/30), associated with said housing, including at least a receiver array; a plurality of interface assemblies (Figure 7), each interface assembly sized for receiving a transmitter part which have outer surfaces sized for allowing said transmitter part to slide into place within said housing, and which can be selectively inserted and removed from said receiver part (e.g., col./line: 6/15-37), and said housing including slide portions which guide said surfaces of each interface assembly into a location and allow connection to said interface assembly, and which allow said

interface assemblies to be selectively slid into place and connected and subsequently remove. Each interface assembly including its own heat sink (Figure 7, #10).

Harrigan does not disclose a common receiver part.

Mody disclosed a communication system having receivers having a common part, see paragraph 103. It would have been obvious to one of ordinary skill in the art at the time of invention to utilize common parts in a receiver for efficiency and cost effectiveness.

Harrigan does not disclose a common drive circuitry. However, It would have been obvious to one of ordinary skill in the art at the time of invention to integrate the drive circuitry to obtain the claimed invention. One is motivated as such since it is not novel to separate or group parts and that common drive circuitry reduces component cost and board space.

Re claims 2, 3, and 5 Harrigan disclosed:

transmitters that operate as blue and green laser beams (e.g., col./line: 4/55-60).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/796,835

Art Unit: 2638

9. Any inquiry concerning this communication or earlier communications from the examiner should be

directed to David C. Payne whose telephone number is (571) 272-3024. The examiner can normally

Page 6

be reached on M-F, 7a-4p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization

where this application or proceeding is assigned 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Dcp

David C. Payne ()
Primary Examiner

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